



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. Date: 09-03-24
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATHI, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-03-24
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
Date of test : 07-03-24
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	-
2	Finess by Air permeablity method (m ² /kg,Min)	282.2	225m ² /kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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R. KARTHIK RECHAN

Authorized Signatory
Quality Manager

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ಬಿ.ಎಂ.ಡಿ. ಬೆಂಗಳೂರು-106

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2024-06-26-12 Date: 04-04-24
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATHI, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-03-24
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 07-03-24
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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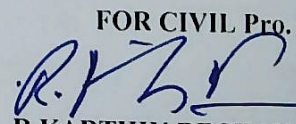
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-06-26-12 Date: 09-03-24
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub
Address : Division, BBMP, Bangalore.
Project Name : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency : Construction of Concrete road and drains at Allalasandra Colony
Customer's Reference : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block,
Source of Sample : Rajajinagara, Mahalakshmpuram, Bangalore-560010
Sample condition : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Date of Receipt : Sample supplied by Agency
Sample Type : Satisfactory
Reference to BIS codes : 06-03-24
IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 06-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---





TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-06-26-12

Date: 09-03-24

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.25	—

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R. Karthik Rechan

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATHI, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-03-24
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 06-03-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams						
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	-

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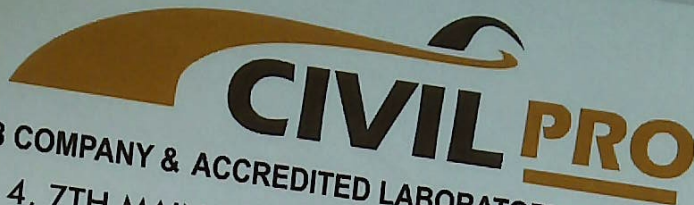
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID

TEST REPORT ON COARSE AGGREGATES
: CP-2024-06-26-12

Format No: CP/TF/01

Date: 09-03-24

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	
4	Bulk Density(Loose) (Kg/l)	1.50	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.28	—
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshimpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-03-24
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 06-03-24

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe550	8	0.391	570	677	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	582	689	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	595	698	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshimpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-03-24
Sample Type /Size : Precast Cover Slab - 230mm thick
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 19/03/2024
Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.51	230.49	2.815	4718	129.3	27.4	25.5	31.9
2	Cover Slab-2	77.49	230.52	2.826	4715	131.4	27.9	25.9	32.4
3	Cover Slab-3	77.54	230.47	2.821	4721	128.2	27.2	25.3	31.6

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 15/04/2024

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-03-24
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI.5
Date of test : 15/04/2024

: 15/04/2024										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	18/03/2024	15/04/2024	150.63 X	22604	8.885	530.2	23.5	23.5
					150.07 X					
					150.80					
2	Drain Bottom Raft Concrete	M20	18/03/2024	15/04/2024	150.83 X	22688	8.989	525.4	23.2	
					150.42 X					
					150.47					
3	Drain Bottom Raft Concrete	M20	18/03/2024	15/04/2024	150.69 X	22708	8.185	544.7	24.0	
					150.69 X					
					150.24					

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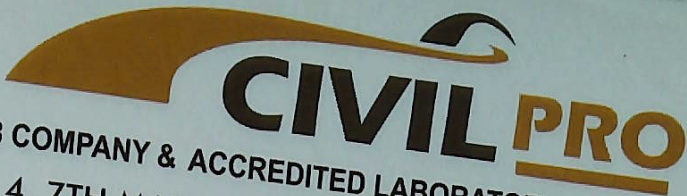


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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

Date: 28/03/2024

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiपुरam, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-03-24
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5
Date of test : 28/03/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	21/03/2024	28/03/2024	150.27 X 150.10 X 150.18	22555	8.985	317.5	14.1	14.4
2	Drain Side Wall Concrete	M20	21/03/2024	28/03/2024	150.82 X 150.55 X 150.48	22707	8.755	330.5	14.6	
3	Drain Side Wall Concrete	M20	21/03/2024	28/03/2024	150.86 X 150.61 X 150.15	22720	8.232	330.0	14.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 22/04/2024

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-03-24
Customer ID : Culvert Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.55 X	22732	8.282	528.8	23.3	23.6
					151.00 X					
					150.94					
2	Culvert Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.64 X	22740	8.193	539.1	23.7	
					150.95 X					
					150.08					
3	Culvert Bottom Raft Concrete	M20	25/03/2024	22/04/2024	150.25 X	22579	8.174	541.0	24.0	
					150.28 X					
					150.82					

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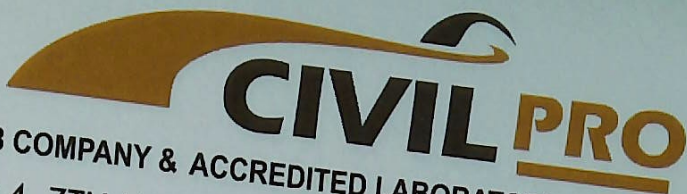


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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 01/04/2024

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshimpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-03-24
Customer ID : Culvert Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 01/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Culvert Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.02 X 150.71 X 150.04	22609	8.198	331.9	14.7	14.5
2	Culvert Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.89 X 150.36 X 150.89	22688	8.290	330.2	14.6	
3	Culvert Bottom Raft Concrete	M20	25/03/2024	01/04/2024	150.54 X 150.29 X 150.19	22624	8.805	326.0	14.4	

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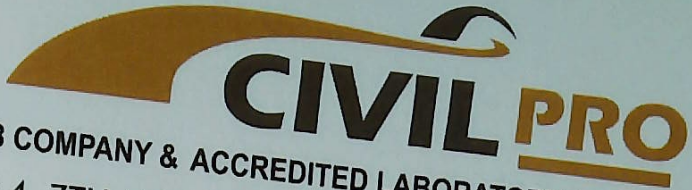


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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 04/04/2024

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiपुरam, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-24
Customer ID : Culvert Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	28/03/2024	04/04/2024	150.07 X 150.20 X 150.29	22541	8.117	322.9	14.3	14.6
2	Culvert Side Wall Concrete	M20	28/03/2024	04/04/2024	150.51 X 150.59 X 150.83	22665	8.383	330.3	14.6	
3	Culvert Side Wall Concrete	M20	28/03/2024	04/04/2024	150.42 X 150.04 X 150.93	22570	8.401	337.4	14.9	

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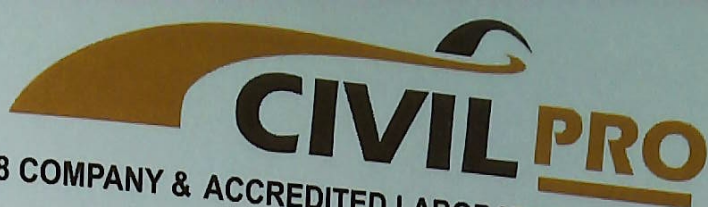


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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 30/04/2024

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmpuram, Bangalore-560010
Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-04-24
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 30/04/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	02/04/2024	30/04/2024	150.44 X	22704	8.986	776.8	34.2	34.3
					150.92 X					
					150.85					
2	Cement Concrete Pavement	M30	02/04/2024	30/04/2024	150.19 X	22583	8.241	781.5	34.6	
					150.36 X					
					150.68					
3	Cement Concrete Pavement	M30	02/04/2024	30/04/2024	150.41 X	22659	8.501	773.8	34.1	
					150.65 X					
					150.12					

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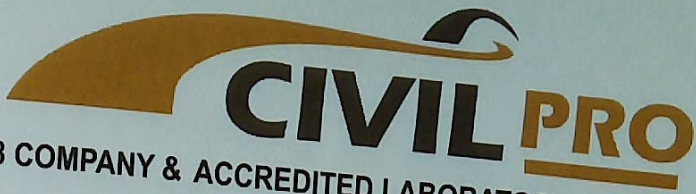


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TEST REPORT OF AGGREGATE IMPACT VALUE IS: 2386 Part IV

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 08-04-24**
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmi puram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-04-24
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 06-04-24

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

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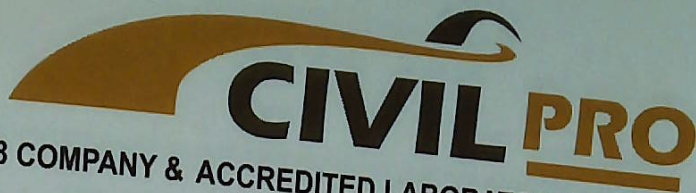
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 08-04-24**
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmi puram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-04-24
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 06-04-24
Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. Date: 18-04-24
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-24
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 15-04-24

Table 500-6 : Physical Requirements for Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	8.0		
Strength	Aggregate Impact Value	21.0	Maximum 27%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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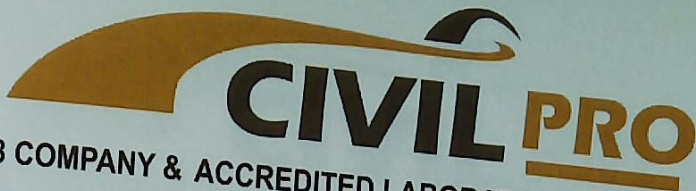


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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. Date: 18-04-24
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-24
Type of Mix : DBM(Dense Bitumnous Macadam)
Date of Test : 15-04-24
Type of Binder :
% of Binder Used : 60/70
Weight of Aggregate : 5.0%
Weight of Binder : 200.0 gm
Temperature of water bath : 9.0 gm
40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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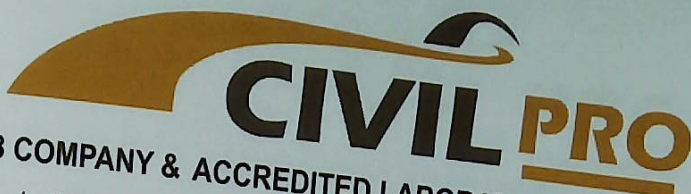
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 25-04-24**
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Date of Receipt : 24-04-24
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 24-04-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	478
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.60	4.80
7	Average percentage	%	4.70	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2007)

Lab ID :
Customer : CP-RW-2024-06-26-12
Address : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Project Name : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency : Construction of Concrete road and drains at Allalasandra Colony
Customer Reference : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara,
Mahalakshimpuram, Bangalore-560010
Source of Sample : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Sample Condition : Sample supplied by Agency
Date of Receipt : Satisfactory
Type of Mix : 19-04-24
Date of Test : BC-Plant (Bituminous Concrete)
Oven Dry Weight : 19-04-24
IS Sieve Size (mm) : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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End of Report



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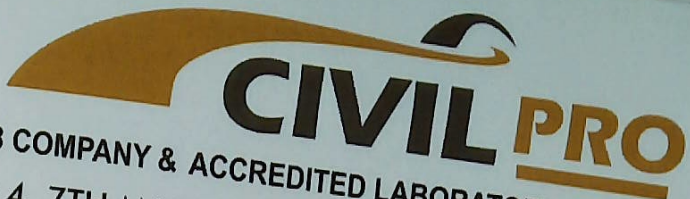
R. KARTHIK RECHAN

Authorized Signatory

Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-04-24
Type of Mix : BC (Bituminous Concrete)
Date of Test : 19-04-24

Date: 22-04-24

Table 500-16 : Physical Requirements for Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Handwritten text in Kannada script: "ಕರ್ನಾಟಕ ರಸ್ತೆ ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದರ್ಶಿ, ಬೆಂಗಳೂರು"

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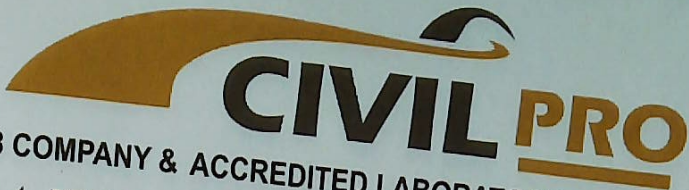
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Handwritten signature of R. Karthik Rechan.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. Date: 27-04-24
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmiapuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Source of Sample : Sample supplied by Agency
Date of Receipt : 25-04-24
Type of Mix : BC (Bituminous Concrete)
Date of Test : 25-04-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.50
7	Average percentage	%	5.55	

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ಕೆ.ಎಂ.ಎ. ಬೆಂಗಳೂರು-560010
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Sig. _____
Date: _____
BANGALORE

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2024-06-26-12
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. Date: 27-04-24
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Concrete road and drains at Allalasandra Colony
Agency : SRI. R RANGANATH, No.37,19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmpuram, Bangalore-560010
Customer Reference : BBMP/EE/YNK.D/KPPP-12/W.O/15/2023-24
Date of Receipt : 25-04-24
Type of Mix : BC (Bituminous Concrete)
Date of Test : 25-04-24

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	474.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.50
7	Average percentage	%	5.55	

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R KARTHIK RECHAN
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

NAME OF WORK: Construction of Concrete road and drains at Allalasandra Colony

QC ABSTRACT

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
1	Cement	Materials				
		Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
4	Fine aggregate	Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
5	Steel	Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
6	Precast (100mm)	ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	7 sets /150-200 cum	186.35	14	14

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ಯುಲಕಂಠ ಉಪನಗರ ಉಪವಿಭಾಗ.

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9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	13.5	4	4
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
		Rate of spread	One Test		1	1
11	DBM					
12	BC					
13	BITUMEN					
14	TACK COAT					

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